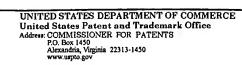


UNITED STATES PATENT AND TRADEMARK OFFICE



DATE MAILED: 09/12/2003

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. Anthony Gus Aipperspach 10/045,755 01/11/2002 ROC920010207US1 7590 09/12/2003 Robert R. Williams **EXAMINER** IBM Corporation - Dept. 917 TRAN, MINH LOAN 3605 Highway 52 North Rochester, MN 55901 ART UNIT PAPER NUMBER 2826

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/045,755	AIPPERSPACH ET AL.
	Examiner	Art Unit
	Minhloan T. Tran	2826
The MAILING DATE of this communication appears on the cov r sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status		
1) Responsive to communication(s) filed on 11 January 2002.		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims		
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-6,10-12,15,18 and 19</u> is/are rejected.		
7)⊠ Claim(s) <u>7-9,13,14,16 and 17</u> is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on 11 January 2002 is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.		(PTO-413) Paper No(s) Patent Application (PTO-152)

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 01/11/2002 has been considered.

Oath/Declaration

2. The oath or declaration filed on 01/11/2002 is acceptable.

Drawings

3. The drawings filed on 01/11/2002 are acceptable.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 10-12, 15, 18, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's prior art figures 1 and 2 in view of Osada et al. (US 2002/0117722).

Applicant's prior art figures 1 and 2 discloses all the subject matter claimed except for each of the plurality of FETs having a device structure, that includes a diffusion layer, a polysilicon layer and a first metal layer, extending in a single direction; and a local interconnect connecting the diffusion layer, the polysilicon layer and the first metal layer. However, figures 1 and 2 of Osada et al. show a layout pattern of the connections between the MOS transistors and the metal layers of an SRAM cell comprising a plurality of FETs TN1, TN2, TN3, TN4, TP1, TP2; each of the plurality of

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FETs TN1, TN2, TN3, TN4, TP1, TP2 having a device structure extending in a single direction; and a local interconnect MC and CA connecting the diffusion layer RX, the polysilicon layer PC and the first metal layer M1.

It would have been obvious to one of ordinary skill in the art to form each of the plurality of FETs of Applicant's prior art figures 1, 2 having a device structure extending in a single direction and a local interconnect connecting the diffusion layer, the polysilicon layer and the first metal layer such as taught by Osada et al. for simplifying the micro-patterning.

Allowable Subject Matter

5. Claims 7-9, 13, 14, 16, 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nii et al. (6,347,062) discloses a multi-port SRAM cell comprising each of the plurality of FETs having a device structure extending in a single direction.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minhloan T. Tran whose telephone number is (703) 308-4919. The examiner can normally be reached on Monday-Friday 9:00 AM-5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on (703) 308-6601. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MIt 09/2003 Minhloan T. Tran Primary Examiner Art Unit 2826